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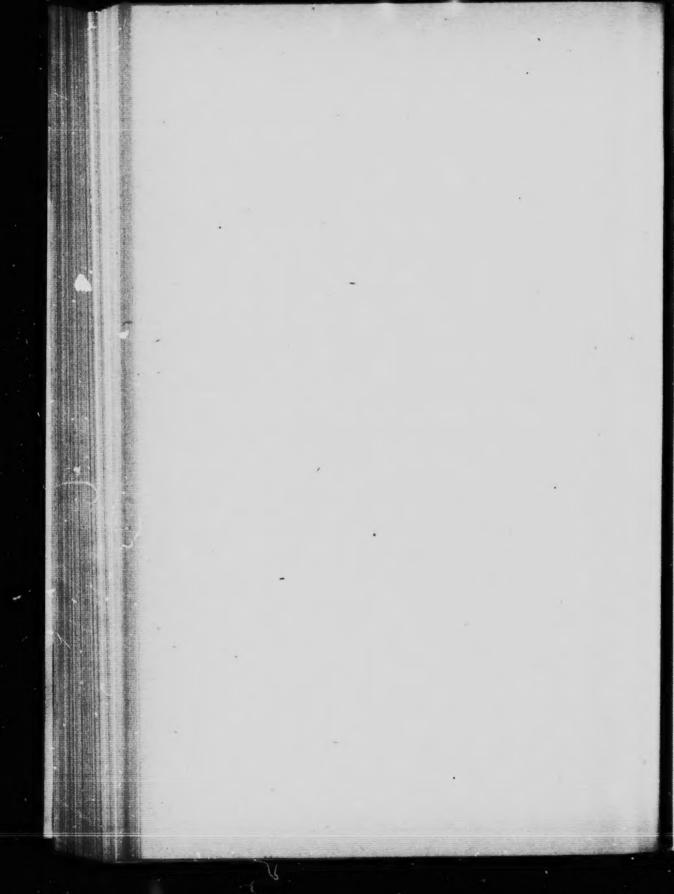
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4	5	6



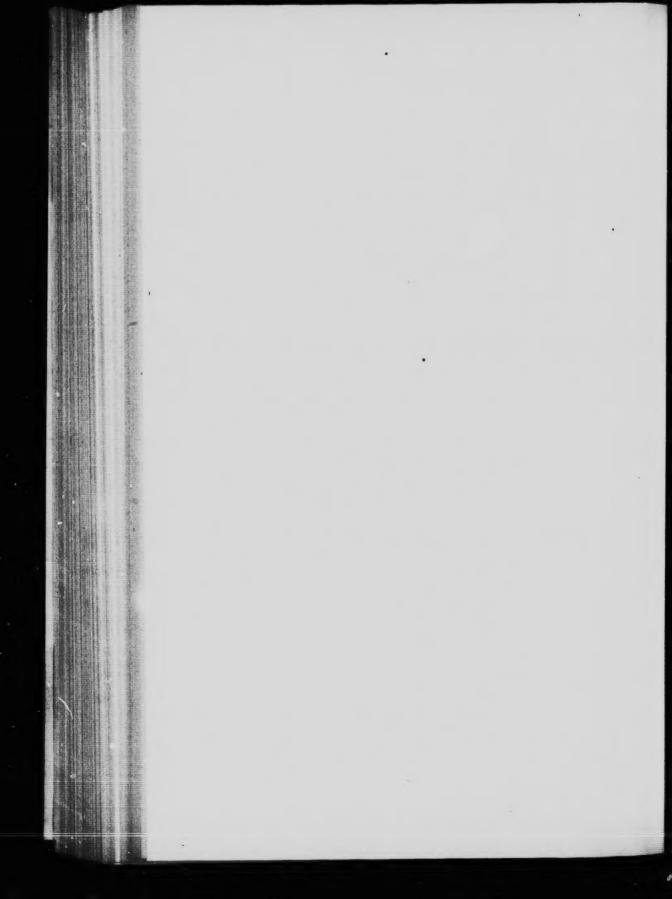
# **LABORATORY**

OF THE

# INLAND REVENUE DEPARTMENT OTTAWA, CANADA

BULLETIN No. 341

HOUSEHOLD AMMONIA



# NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such a nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these colors of convenience of reference these notes will be numbered in series.

A. McGILL, Chief Analyst.

#### LABORATORY

OF THE

# INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 341

### HOUSEHOLD AMMONIA

OTTAWA, June 15, 1916.

J. U. VINCENT, Esq., Deputy Minister of Inland Revenue.

Sir,—Of late years Ammonia has come to be largely in use in the household, as a detergent and for the convenience of persons in whose hands the strong solution of ammonia would be attended with danger, manufacturers have placed on the market a dilute ammonia under the name of Household Ammonia, which finds very extensive sale. For the most part, this article is simply a dilution with water of the strong solution (Liquor Ammoniae Fortis) of the Pharmacopæia. This latter is required to contain 32·5 per cent by weight of Ammonia (NH³). A weaker solution is also defined by the Pharmacopæia (Liquor Ammoniae) containing 10 per cent by weight of Ammonia. It may be mentioned here that the Ammonia of the French Codex contains only 20·18 per cent and the Aqua Ammoniae Fortior of the United States Pharmacopæia, 28 per cent by weight of Ammonia.

Some market samples of the article contain, in addition to Ammonia, soaps of

various kinds, and other ingredients.

In January 1914, Professor J. F. Snell of Macdonald College, presented to the Canadian Section of the Society of Chemical Industry a study of Commercial Household Ammonia in Canada. (See Journal of the Society, 1914, p. 1177) and recommended that a more extended inspection of the articles be made under the Adulteration Act.

Ammonia, considered as a drug, undoubtedly comes under the purview of this Act. While Household Ammonia cannot be described as a drug in the strict sense, it has been thought well, in the interest of the public generally, to examine this article, and the present report deals with the more or less complete analysis of one hundred and sixty-two (162) samples, purchased by our inspectors as Household Ammonia, in December, January and February last.

Professor Snell reports upon the Analysis of 10 samples of clear ammonias, 5 samples of so-called cloudy Ammonias (containing soaps), and 6 samples of solid Ammonias (escentially carbonate of ammonia) and finds, for the liquid preparations, that "the household Ammonia sells wholesale at from 4 to 14 times the wholesale value of the Ammonia contained in it. The retail price is from 6 to 20 times the wholesale value of the Ammonia," and adds, "How much more economical it would be to buy commercial concentrated ammonia, and dilute it with good soft water."

There is of course a certain convenience in purchasing the article in a form ready for use, and that the average consumer is willing to pay for this service is amply evident when we consider the extensive sale of many foods in neat packages, which could be purchased at much less cost in bulk. It is however, a reasonable claim, when the purchaser asks how much in excess of its minimum market value he pays for the advantage of package, or in the case of Household Ammonia, of dilution and package. It is certainly with surprise and indignation that the purchaser learns of the six-fold increase found by Professor Snell.

With a view to establishing as far as possible, a relation between value and price of these articles I have tabulated (see Table II) the results of analysis, grouping tegether samples bearing the same name (Brand). On account of the difficulty attending exact measurement of containers the information given in Table II must be regarded as approximate only.

From this it is seen that one unit of Ammonia, purchased in 12 ounce bottle, costs from 1.877 of a cent (cheapest) to 12.918 cents; the average cost being about 3 cents.

In order to obtain some idea of the cost of the same quantity of Ammonia, in twelve ounce package, bottle included, I caused four samples to be purchased in Ottawa, and Hull, and found these to cost 35 cents, in each case. The Ammonia values were found to be 23·14; 22·54, 21·98 and 23·24; giving a mean value of 22·72 per cent. The value per unit, is thus found to be 1·540 cents.

It is to be noted that this is the cost of a pure Ammonia, and a less highly purified article may be purchased at a considerably lower price. In a general way it may be said that our examination of so-called Household Ammonia essentially substantiates the findings of Professor Snell, and leads to the conclusion that the consumer can effect a substantial saving, by purchasing liquid Ammonia and diluting with water to suit his purposes.

I would respectfully suggest publication of this report as Bulletin No. 341. It contains information which will be helpful to many questioners regarding possible nousehold economies.

I remain, sir, Your obedient servant.

> A. McGILL, Chief Analyst.

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tion.	Norman			Name and Address		Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		
Date of Collection.		Nature of Sample.	No. of Sample.	of Vendor.	Quantity.		Center	Manufacturer.	Furnisher	
								DISTRICT OF NO	VA SCOTIA-	
1915	.			•		1			0	
Dec.	29	Household Ammonia.	69854	A. J. Roop, New Glasgow	. 3 bo	ta.	15	Sawyer Crystal Blue Co., Boston, Mass.	R. McGregor Sons, Ne Glasgiow.	
91.	29	11	69855	S. M. Lochhart & Co. "	3	. :	35	Sultana Ltd., Mont- real.		
11	31	**	69856	R. McNabb, Trenton, N.	3 .	1	85	Alpha Chem. Co., Berlin, Ont.	11	
				1	IST	RIC	T	OF PRINCE EDWA	RD ISLAND	
Dec.	17	Household Ammonia.	60463	Beer & Goff, Charlotte	- 3 bc	tu.	36	Sultana Ltd. Mon- treal.		
31	17	Ammonia.	60464	P. A. Smith, Charlotte	-3		36	Dearborn Co., Ltd., St. John.		
	17	11	60465	J. G. Passmore, Charlotte	3		30	Stuart & Foster Ltd.,		
17	24	**	60466	J. A. Cronin, Charlotte	3		30	Dearborn Co., Ltd.,		
11	24	11	60467	L. C. Worthy, Charlotte	3	.	36	St. John. Bee Starch Co., Mon-		
11	24	**	60468	J. M. McQuaid, Charlotte town.	3	"	36	Alpha Chem. Co., Berlin, Ont.		
							DI	STRICT OF NEW	BRUNSWICK	
Dec.	13	Household	66281	W. A. Simonda, St. John	a. 3 b	ota.	30	Nat. Drug & Chem.		
**	13	Ammonia.	66282	Nat. Drug & Chem. Co	., 3		30	Co., St. John. Vendors		
11	13	61	66283	St. John. Dearborn & Co., St. John	n. 3	"	25	H		
11	21	11	6628	The Canadian Drug Co	., 3	"	30	ıı		
191	6.									
Jan.	11	"	6628	M. E. Doohan, Fredericte	m 3	.	30			
11	13			8 Yerxa Grocery Co., Woo		.	25	John. Stuart & Foster Ltd.,		
Feb.	8		6628	stock.			30	Toronto. W. F. Hatheway Co.,		
	8			Sussex. 8 Smith Bros., Sussex		,,	30	St. John.		
"	8			9 Mrs. P. White, Moncto		,,	30	John.	!	
"	11			J. B. Snowball Co. Ltc.		17	30	Woodstock.		

HOUSE	HOLD	AM	MONIA	ı.
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Inspector's			Result	ts of Analy			
Report, (Is not an expression of opinion.)	Name of Brand.	Ammonia	Dissolved Solids.	Ash	Specific Gravity.	No. of Sample.	Remarks, and Opinion of the Chief Analyst,
W. A. PETIPAS,	TEMPORA «V	INSPE	CTOR.		-		
1.		p. c.	p. c.	p. c.			
Sa	wyer's	7 8	6 0.01	0.010		69854	
Su	Itana	4.3	6 0.15	0 132		69855	
A1	pha Chem, Co	3.1				69826	
M. A. WEEKS,	INSPECTOR.		1				
Sul	tana	4:02	0.038	0.021		60463	
Der	arborn	4 · 69	0.031	0.012		60464	
Sun		2:58	0.011	0.000		60465	
Dea	rborn	4:66	0.028	0.011		60466	
		2.73	0.015	0.008		60467	
Alp	ha Chem. Co	3.50	0.019	0.003		60 168	
HN C. FERGUS	ON, INSPECTO	R				-	
	onds	2 98	0.053	0.041		66281	
	Drug Co	6.98	0.017	0.012		66282	
	born	4 · 69	0.036	0.022		66283	
Cana	da Drug Co	4.98	0.043	0.030		66284	
Dear	orn	4.36	0.081	0.015		6288	
Sun.		3.41	0 014	0.007		6286	
	Pway	2.85	0 043	0.036		6287	
		4 24	0.047	0.014		6288	
1	orn	2 24	0.0441				
Dearb	orn	2.41	0.010	0 005		5289	

#### TABLE I-BULLETIN No. 341-

llection.	Nature	ımple.	Name and Address	Cost.		Name and Address of Manufacturer or Furmisher, as given by the Vendor.		
Date of Co	of Sample.	No. of San	of Vendor.	Quantity.	Cents.	Manufacturer.	Furnisher.	

#### DISTRICT OF QUEBEC CITY-

191	5.		· ·	
Dec.	22	Ammonique dom.	56632 E. Martel. 1078 St. Va. 3 bots. 75 Vendor	
**	22	"	56633 J. Masson, 808 St. Valier, 3 45	N. D. & C. Co.
17	23	"	56634 J. B. Giroux, 385 St. 3 . 75	J. E. Livernols
**	23	"	56635 A. Leclere, 243 St. Joseph, 3 " 60	Unknown
11	23	11	56636 W. Brunet Cie, 144 St. 3 . 60	J. Comen, Mont
11	23	"	56637 J. Plamondon, 122 St. 3 " 60 Unknown Joseph, Quebec.	
**	24	"	56638 Dr. Gagnon, 28 St. Pierre, 3 75	Dr. Ed. Morin
11	24	11	56629 " " 3 " 45 Unknown	
10	24	11	56640 Dr. Ed. Morin, 113 de la 3 " 45 "	
**	24	"	PARTIE I WAS A SALE OF THE PARTIES O	

## DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU,

191	5.			
Dec.	23	Ammon	ia	3664 J. E. Gagne, Ste. Maxime 2 bots. 30 Dr. Ed. Morin, Quebec.
**	23	: \$1		3666 J. Dussault, St. Henedine 2 " 30 Bee Starch Co., Montreal.
191	5.			
Jan.		"	••	3671 W. J. Doyle, St. Edward 3 " 45 Whitehead & Turner,
19	14	**		3677 Dorchester Lumber, St. 3 " 45 Sultana, Ltd., Mon- Malachi. treal.
19	29	11	• •	3683 G. Ed. Couture, Levis 3 " 30 J. B. Paine Co., Toronto.
1913	5.			
Dec.	21	**		4437 L. N. Roy, St. Valier 3 75 Sultana, Montroal
"	21	11		4439 Eugene Bolduc, St. Valier 3 " 45 Stuart & Foster, Toronto.
111	22	"		4445 J. A. Lemieux, St. Michel 3 60 J. B. Paine Co., Toronto.
**	22	**		4448 Geo. Roy, St. Michel 3 " 30 Sultana, Montreal
н	30	***		72233 A. E. Michson, Mont-3 , 30 Sapho Mfg. Co.,
**	30	.09		72234 Dr. Jas. Gagnon, Mont 3 " 60 J. E. Livernoi Quebec.

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Report. (Is not an expression of opinion.)	Ammonia NH3.  Dissolved Solids. Specific Gravity.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
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#### F. N. W. E. BELAND, INSPECTOR.

	p.c.	p.c.	p.c.		i
	. 23.80				56632
	. 5.95			• • • • • • • •	56633
	. 24.80				56634
	. 23 50	,			56635
	. 10.45				56636
	7.85				56637
· · · · · · · Hartshorn · · · · · · · ·	6.95				56638
	15.64				56639
Hartshorn	7.65				56640
	6.64				56641

# T. GENDREAU, A. PELLETIER AND N. CADIEUX. TEMPORARY INSPECTORS.

			l .	1 1
6.42	0.067	0.043		3864
3.23	0.013	0 007		3666
5.46	0.017	0.008		3671
3.57	0.030	0.030		3677
2.20	0.023	0.012	• • • • • • •	3688
2.12				4437
2.51				4439
1.87		• • • • • • • •	• • • • • • •	4445
3:86				4448
2:41				72238
16:22		· · · · · · ·		72234
	5·46 3·57 2·59 2·15 2·51 1·87 3·86 2·41	5·46 0·017 3·57 0·030 2·59 0·023 2·15	5·46 0·017 0·008 3·57 0·030 0·020 2·59 0·023 0·015  2·15	5·46 0·017 0·008

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#### TABLE I—BULLETIN No. 341—

ion.				Co	st.	Name and Address or Furnisher a the Ver	as given by
Date of Collect	Nature of Sample,	No. of Sample.	Name and Address of Vendor.	Quantity.	Cents.	Manufacturer.	Furnisher.

#### DISTRICT OF QUEBEC CITY-

191	5.							
Dec.	22	Ammoni	а	4920	P. E. Danjous & Fils, Bic.	1 chep	15	Sultana Co., Mont-
Ħ	18	11		346	Eugene Fournier, St. Jerome.	3 bots.	60	
Ħ	18			348	Pierre Simard, St. Jerome	3 н		Sapho Mfg., Co
1916	28 3.	* **		364	Napoleon Hetu, St. Agathe des Monts.	3 11	45	Stuart & Foster
Jan.	7	11			Belair & Paquette, St. Eustache deux Mont- agnes.		36	Laporte & Martin.
99	7	"		377	Boileau & Aubu, St. Eustache deux Mont- agnes.		30	Stuart & Foster

#### DISTRICT OF THREE RIVERS-

1918	i.							
Dec. 1916	- 1	Ammo	1ia	69217	L. A. Caisse, Bert ville.	thier- 3 hots.	39	Sapho Mfg., Co
Jan.	3	**		69221	J. A. Boisvert, Joli	iette. 3 "	30	Sultana Co., Mont-
**	3	11		69223	L. P. Crepeau, Jolie	tte., 3 H	80	Stuart & Foster,
11	4	87		69225	Rodrique Deblois, Thomas,	St. 3 "	30	Stuart & Foster,

#### DISTRICT OF EASTERN TOWNSHIPS--

		1						
Feb.	10	Ammon	ia	67559	Gosselin & Paradis,	3 bots.	30	
10	10	11		67560	J. O. Donigan, Magog	3 4	30	Nat. Drug. & Chem.
99	11	JI.		67561	H. Paré, Granby	3 ,,	25	Co.
91	11	10						
					Annual are give to gain. A transfer to the analysis of the ana			

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Inspector's		Results o	f Analys	18.		
eport. (Is not an expression of opinion.)	Ammonia NH3.	Dissolved Soli 14.	Ash.	Specific Gravity.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
ncluded.						
Sapho Sun	p. c. 3°85 7°56 3°86 4°31	p. c. 2·500	р. с. <b>0·076</b>		4920 346 348 864	é
· · · · · · · · · · · · · · · · · · ·	5·10, 4·50.				376	
V. P. LAVALLEE, TEMPO	DRARY INS	РЕСТО	R.			
Sapho	2.41				9217	
Sultana	4·32 6·19 . 4·82			6	9 <b>22</b> 1 9 <b>22</b> 3 9 <b>22</b> 5	
COSTIGAN, ACTING INSP	ECTOR.					
National.  Entente.  Sun	4·32 5 64 1·29			67	569 560 561	

# TABLE I—BULLETIN No. 341—

Dection		Natur	<b>10</b>	nple.	Name and Address	Сол	t.	Name and Address or Furnisher a the Ven	s given by
Date of Collection.		of Samp:	6.	No. of Sample.	of Vendor.	Quantity.	Cents.	Manufacturer.	Furnisher.
								DISTRICT OF	MONTREAL
191	6.								
Feb.	7	Ammoni	n	67251	Charlevoix St., Mon-	3 pkts.	15	S. F. Laurason Co .	***********
10	7	п		6 <b>72</b> 52	R. Mercier, 420 Charle- voix St., Montreal.	3 "	15	Pugsley, Dingman &	** * ****
н	8	99		67253	N. Lelande, 361 Charle-	3 bots.	30	Co., Ltd. Stuart & Foster	**** *******
88	8	**		67254	voix St., Montreal. Boisvert Bros., 354	3 н	30	Bee Starch Co	*****
20	8	**		67255	Hibernia St., Montreal. R. Gough, 351 Hibernia	3 pkgs	15	Pugsley, Dingman	********
10	8	41		67256	St., Montreal. D. Hadden, 1 Rushbrooke	3 н	30	Co., Ltd.	
	8	14		67257	St., Montreal. J. Stetson, 264 Hibernia	3 bots.	30	Sultana, Ltd	
17	8	**			St., Montreal. N. Fortin, 80 Coleraine St., Mor *eal.		30	Unknown	
11	9			<b>672</b> 59	St., Mor "eal. R. Ekin', o01 Wellington	3 pkgs	15	Bee Starch Co	***************************************
99	9	60			St., Montreal. S. Whitehead, 291 Charron St., Montreal.		30	Sultana, Ltd	
Jan.	28	Ammoni		62971	E. Beauchamp, St. Lamberta.	3 bots.	45	Hervay Chem. Co., St. Basile.	LLEYFIELD-
16	28	11		62972	Graham & Hunter, St.	3 ,,	30	Stuart & Foster,	
10	28	89	• •	62972	(iraham & Hunter, St. Lamberts.	3 "	30	Stuart & Foster, Toronto.	
191		00	• •	62972	Graham & Hunter, St.	3 ,,	30	Stuart & Foster, Toronto.	
1918 Dec.	5.	Househo			Graham & Hunter, St. Lamberts.  A. M. Parkinson, Kempt-			Stuart & Foster, Toronto.  DISTRICT C	OF OTTAWA-
	5.	Househol Ammo		70553	Graham & Hunter, St.	3 bots,	45	Stuart & Foster, Toronto.	DF OTTAWA-
Dec.	5. 7	Ammo		70553 70554	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville. W. G. Becksted, Morris-	3 bots,	45 30	Sultana, Ltd., Montreal.  Sultana, Ltd., Montreal.  Sae Mig. Co., Ltd.,  Toronto.  Pugaley, Dingman &	DF OTTAWA-
Dec.	5. 7	Ammo	nia.	70553 70554 70568	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville. W. G. Becksted, Morrisburg. W. & J. Meikle, Morris	3 bots, 3 pkgs	45 30 30	Stuart & Foster, Toronto.  DISTRICT C  Sultana, Ltd., Montreal. Ese Mfg. Co., Ltd., Toronto.  Pugaley, Dingman & Co., Toronto.	DF OTTAWA-
Dec.	5. 7 7	Ammo	nia.	70553 70554 70568 70569	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville, W. G. Becksted, Morrisburg, W. & J. Meikle, Morrisburg, T. McCormick & Son,	3 bots, 3 pkgs 3 u 3 bots,	45 30 30 30	Sultana, Ltd., Montreal. Esse Mig. Co., Ltd., Toronto.  Pugaley, Dingman & Co., Toronto. Stuart & Foster, Ltd., Toronto.	DF OTTAWA-
Dec.	5. 7 7 11	Ammo w	nia.	70553 70554 70568 70569	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville. W. G. Becksted, Morrisburg. W. & J. Meikle, Morrisburg.	3 bots, 3 pkgs 3 " 3 bots, 3 pkgs	45 30 30 30 15	Stuart & Foster, Toronto.  DISTRICT C  Sultana, Ltd., Montreal. Ese Mfg. Co., Ltd., Toronto. Pugaley, Dingman & Co., Toronto. Stuart & Foster, Ltd., Toronto. S. F. Laurason & Co., London, Ont.	DF OTTAWA-
Dec.	5. 7 7 11 11 14	Ammo	nia.	70553 70554 70568 70569 70590 70630	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville, W. G. Becksted, Morrisburg, W. & J. Meikle, Morrisburg, T. McCormick & Son, Amprior, E. Birnns, Eganville	3 bots, 3 pkgs 3 s 3 bots, 3 pkgs	45 30 30 30 15 30	Stuart & Foster, Toronto.  DISTRICT C  Sultana, Ltd., Montreal. Ese Mfg. Co., Ltd., Toronto.  Pugsley, Dingman & Co., Foronto. Stuart & Foster, Ltd., Toronto. S. F. Laurason & Co., London, Ont. Bee Starch Co., Montreal.	DF OTTAWA-
Dec.	7 7 11 11 14 24	Anno	nia.	70553 70554 70568 70569 70590 70630 70642	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville. W. G. Becksted, Morrisburg, W. & J. Meikle, Morrisburg. T. McCormick & Son, Amprior.	3 bots, 3 pkgs 3 n 3 bots, 3 pkgs 3 n 3 n	45 30 30 30 15	Stuart & Foster, Toronto.  DISTRICT C  Sultana, Ltd., Montreal. Exe Mfg. Co., Ltd., Toronto.  Pugaley, Dingman & Co., Toronto. Stuart & Foster, Ltd., Toronto. S. F. Laurason & Co., London, Ont. Bee Starch Co., Mon-	DF OTTAWA-
Dec.	5. 7 7 11 11 14 24 29 30	Anno	nia.	70553 70554 70568 70569 70590 70630 70642	A. M. Parkinson, Kemptville, Mundle & Percival, Kemptville, W. G. Becksted, Morrisburg, W. & J. Meikle, Morrisburg, T. McCormick & Son, Arnprior, E. Birnns, Eganville Eugene Doucet, Dupont and Papineau Sts., Hull. King George Grocery,	3 bots, 3 pkgs 3 n 3 bots, 3 pkgs 3 n 3 n	45 30 30 30 15 30 15	Stuart & Foster, Toronto.  DISTRICT C  Sultana, Ltd., Montreal. Eme Mfg. Co., Ltd., Toronto.  Pugsley, Dingman & Co., Toronto. Stuart & Foster, Ltd., Toronto. S. F. Laurason & Co., London, Ont. Bee Starch Co., Montreal. A. Hutchinson & Co., Toronto. Bee Starch Co., Mon.	DF OTTAWA-

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Inspector's Report. (Is not			Re ults of	Analysis	B.	ple.	Remarks and Opinion
an expression of opinion.)	Name of Brand.	Ammonia NH3,	Dissolved Solids.	Ash.	Specific Gravity.	No. of Sample.	of the Chief Analyst.
J. KEARN	EY, INSPECTOR.						
		р. с.	р. с.	р. с.			
	Laurason's	2.04		• • • • • • • •		67251	
	Handy	3.06		• • • • • • • • •		67252	
	Sun	2.65				67253	
	Bee	3.09			•••	67254	
	Handy	4.08				67255	
	Laurason's	3.40				67256	
	Sultana	4:40			••••	67257	
	Murray's	4.97			• • • • • • • •	67258	
	Bee	2.04		•••••		67259	
	Sultana	4.03	1			07000	
	N, ACTING INSP	естон	<u>.</u>			67260	
	N, ACTING INSP	4·66 3·85	<b>.</b>			62971 62972	
	Chemical Co	4.66	2.			62971	
A. RICKEY	Chemical Co	4.66	<b>L</b>			62971	
d Seal squad to 6 qts.	Chemical Co	4·66 3·85 3·50 1·70				62571 62972	
d Seal	Chemical Co	4·66 3·85 3·50 1·70 8·23	2			62971 62972 70553 70564 70568	
d Seal structure of Seal struc	Chemical Co	4·66 3·85 3·50 1·70 8·23 4·66	<b>L</b>			6≥571 62972 70553 70554 70568 70569	
d Seal sar, contents qual to 6 qts. as Ammonia. sedutely pure, 1 arvey's Sun S	Chemical Co	4.66 3.85 3.50 1.70 8.23 4.66 2.89				62571 62972 70553 70554 70568 70569 70590	
d Seal	Chemical Co	4·66 3·85 3·50 1·70 8·23 4·66 2·89 1·70				62571 62972 70553 70554 70568 70569 70590 70680	
d Seal	Chemical Co	4.66 3.85 3.50 1.70 8.23 4.66 2.89				62571 62972 70553 70554 70568 70569	

## TABLE I—BULLETIN No. 341—

Date of Collection	OHECKHOH!	Nature of	Sample.	Name and Address			Name and Address of Manufacture or Furnisher, as given by the Vendor.
Date of C		Sample.	No. of Sa	of Vendor.	Quantity.	Cents.	Manufacturer. Furnisher.
							DISTRICT OF KINGSTON
191	15.				<u> </u>		
Dec.	10	Household	71781	Geo. Mahood, Kingston	3 bots.	30	Vendor.
н	13	Ammonia.		Wallbridge & Clark, Belle-		30	Stuart & Foster,
11	13	**		ville. Ed. A. Kellaway, Belle-		30	Toronto.
11	13	81		ville. The Belleville Pharmacy,		35	Vendor
11	14	**		Belleville, W. H. Ireland, Trenton		30	
**	14	**	71786	W. Webster, Trenton	3 ,,	30	Sultana, Montreal
**	14	11		W. Burnet, Cobourg		30	Cleveland Chem. Co
10	14	17		E. Guillet, Cobourg		30	Toronto. Stuart & Foster
**	15	11		A. M. Caroling, Peterboro		30	Toronto. J. T. Taylor, Toronto
**	15	**		J. E. Lillico, Peterboro		30	Moody's, Berlin, Ont.
							DISTRICT OF TOKONTO
					`		
Dec.	14	Household Ammonia.	70131	Matheson Bros., Whitby	3 pkgs	15	S. F. Lawrason Co.,
**	15	reminonia.	70132	T. C. Forman, Port Perry.	3 11	25	London. Eze Mfg. Co.,
11	15	11	70133	A. M. MacPhail, Ux-	3 bots.	30	Toronto. Gorman Eckert Co.,
11	15	",	70134	bridga. J. A. McLean, Canning- ton.	3 pkga	80	London. Pugsley Dingman Co., Toronto.
u	17	"	70105	J. G. French, Beaverton.	3 11	30	Eby Blain Co
11	20	"	70136	N. Sisterson, 395 Wilton	3 bots.	30	Cleveland Chem. Co., Toronto.
u	20	"	70137	Ave., Toronto. W. J. Nichol, 258 Queen St. E., Toronto.	3 pkg¤	25	Toronto. Hutchinson Omand
11	21	"	70138	J. M. Porter, 689 Bloom St. i	3 hots.	30	Co., Toronto. W. Wilson & Son, Toronto.
**	23	"	70139	W., Toronto. T. W. Squire, 229 Church	3 pkgs	15	Fize Mfg. Co.,
98	23	66	70140	St. W., Toronto. C. Byars, 259 Danforth Ave., Toronto.	3 hots.	30	Toronto, Alpha Chem. Co., Berlin, Ont.
		'	`		'		DISTRICT OF WINDSOR-
191	6.		1				
Jan.	14	Liquid	54564	A. M. Smith & Son,	l bot.	10	M. Maserret
н	14	Ammonia.	- 1	Woodstock. Geo. Parker, Woodstock.			Stuart & Foster, Co., London
11	14	10		E. W. Sage, Woodstock.			Toronto. Gorman Eckert Co.
							London.

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ufact rer en

misher.

GSTON-

ONTO-

lain Co.,

DSOR-

serret & London.

Inspector's Report. (Is not			Results of	Analysi	e.	ple	
an expression of opinion.)	Name of Brand.	Ammonia NH3.	Dissolved Solids.	Ash.	Specific Gravity.	No. of Sample.	Remarks and Opinion of the Chief Analyst
∵s. Ho <b>GAN,</b>	INSPECTOR.						
		p.c.	p.c.	p.c.			
	*** **********	8.36		•••••		71781	
	Sun	6 12		•••••		71782	
	19	2.24				71783	
	***************************************	8:84		•••••		71784	
	Bull Dog	3.90				71785	
1	Sultana	4 · 42			•••••	71786	
	Hawe's	5.22				71787	
	Sun	4.14				71788	
		4.08				7178t-	
	Moody's	3.52		• • • • • • •	• • • • • • • •	71790	
I. J. DAGER, I	NSPECTOR.		1 1		- '		
	Lawrason's	2 21				70131	
		2 21 1 87				70131 70132	,
	Lawrason's						٧
	Lawrason's	1 87				70132	1
	Lawrason's	1 87 5·32				70132 7013 <b>3</b>	,
	Lawrason's	1 87 5·32 3·23				70132 70138 70134	<b>\</b>
	Lawrason'sStar	1 87 5·32 3·23 2·04				70132 70138 70134 70135	`
	Lawrason's	1 87 5·32 3·23 2·04 4·86				70132 70138 70134 70135 70136	,
	Lawrason's	1 87 5·32 3·23 2·04 4·86 2·38				70132 70138 70134 70135 70136 70137	`
	Lawrason's	1 87 5·32 3·23 2·04 4·86 2·38 11·38				70132 70138 70134 70135 70136 70137 70138	`
	Lawrason's	1 87 5·32 3·23 2·04 4·86 2·38 11·38 2 62				70132 70138 70134 70135 70136 70137 70138 70139	•
OHN TALBOT,	Lawrason's	1 87 5·32 3·23 2·04 4·86 2·38 11·38 2 62				70132 70138 70134 70135 70136 70137 70138 70139	•
OHN TALBOT,	Lawrason's Star Handy,. Anchor Hawe's H. O Vilson's Trescent Moody's INSPECTOR.	1 87 5·32 3·23 2·04 4·86 2·38 11·38 2 62				70132 70138 70134 70135 70136 70137 70138 70139	`
OHN TALBOT,	Lawrason's Star Handy,. Anchor Hawe's H. O Vilson's Trescent Moody's INSPECTOR.	1 87 5·32 3·23 2·04 4·86 2·38 11·38 2 62 2·84				70132 70138 70134 70135 70136 70137 70138 70139 70140	•

# TABLE I—BULLETIN No. 341—

llection.		Nature	Sample.	Name and Address	C	ost.		Name and Address of Manufacture or Furnisher as given by the Vendor.
Date of Collection.		of Sample.	No. of San	of Vendor.	Quantity.		Centa	Manufacturer. Furnisher.
								DISTRICT OF WINDSOR
1910	B.							
Jan.	14 14	Liquid Ammonia.		E. J. Coles & Co., Wood- stock. John A. Smith, Wood- stock.		-1	10 10	J. B. Paine Co., Toronto. Gorman Eckert&Co., London.
**	14	"	54574	White & Co., Woodstock.	1 "		10	10 10
**	14	"	54576	Lewis & Son, Woodstock.	1 "		10	I. X. L. Spice &
**	20	"	54587	Willis & Co., London	1 11		10	Gorman Eckert &
10	20	11	54588	James McLeod, London.	1 "		10	11
11	20	"	54589	Dan. Carter, London	1 w		10	E. Adams & C
								DISTRICT OF MANITOBA
191	Б.							
Dec.	20	Household Ammonia.		E. A. Whitman, Emer son. P. Dalair, Elm Creek			25 30	Royal Crown Soap Co., Winnipeg.
10	30	44	71989	H. McFelridge, Minne-	12	"	15	J. B. Paine Co.,
191	6.							
Jan.	5	11	71990	J. H. Moore, Souris	12	"	15	Royal Crown Soap
11	6	10	71991	A. I. Grocery, Brandon	12	"	15	Co., Winnipeg. Codville Co., Bran-
11	6	11	71992	MacFee Drug Co., Bran- don.	12	"	25	National Drug Co.,
•	6	п	71993	Kennedy Pharmacy, Bran-	12	.	15	Vendor
n	6	11	71994	don. W. J. Young, Brandon	12	н	20	Gold Standard Co.,
11	6	11	71995	Mutter Bros., Brandon	Lif		15	J. B. Paine, Toronto.
11	6	11	71996	Ross & McMullen, Virden.	12	h,	30	Vendors
							D	ISTRICT OF SASKATCHEWAN
191	5.							
Dec.	18	Household Ammonia.	71533	E. R. Davis, Estevan	1 pin	nt.	15	Martin Bole & Wynne Winnipeg.
191	6.							
Feb.	9			Pletch's Grocery, Swift Current.	ļ	- 1		Royal Crown Soap Swift Curre Co., Winnipeg. J. B. Paine Co.,
89	9			D. Wodlinger, Swift Cur- rent.				Toronto.
10	10			Robinson McBean Co., Moose Jaw.		-1		Stewart & Fisher
11	10	"	71554	W. S. Hamilton, Moose Jaw.	1 .	1	15	The Bole Drug Co., Winnipeg.

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Current

Inspector's Report. (Is not		mults of	Analysis	•	Sample.	Remarks and Opinion
an expression of opinion.)	Ammonia VH3.	Disselved Solida.	Arb.	Specific Gravity.	No. of San	of the Chief Analyst.
Concluded.	,		1	1		
	р. с.	р. с.	р. с.			
Bull Dog Bran Bull Dog	3 40				54571	
	5.70		 		54572	
	5.78	******			54574	
	. 5:40				54576	
	. 5°50				54587	
	5.61				54588	
Fan Brand Fan	5.86				54589	
	3·40 2·90	0·00	• • • • • •	0·9 <b>86</b> & 0·9894	71987 71988	
	1.80			0.8884	71989	
	1.90	0.11		0.9934	71990	
	4.10	0.05		0.9832	71991	,
	8.70	0.02		0.9634	71992	
***************************************	6.110	0.01		0.9750		
	4:30		••••	0.9827	71994	
	2.70	0.02		0.9891	71995	
	8:70	0:04		0.9633	71996	
		1				
L. H. HALL, INSPECTOR.	1 1	- 1				
L. H. HALL, INSPECTOR.						
L. H. HALL, INSPECTOR.	3.90	0.04		0.9840	71533	
Royal Crown	2.20			0.3840		
Royal Crown Bull Dog	2.20	0.10				
Royal Crown	2.20	0.10		0.9909	71847	

# TABLE I—BULLETIN No. 341-

Hecti		Natu	re	Sample.	Name and Address	Co	et.	Name and Address or Furnisher a the Ver	as given by
Date of Collection.		of Samp	de.	No. of Sau	of Vendor.	Quantity.	Cente	Manufacturer.	Furnisher.
								DISTRICT (	F ALBERTA
191	6.								
Feb.	10	Househ		52371	J. H. Morris & Co., Ed-	3 bot.	. 15	Royal Crown Soap	
14	10	Amm	onia.	52372	monton. G. H. Grayden, Edmon-	3 "	25	Ltd., Calgary. Vendor	, , ,,
**	14	,,		52373	J. J. Christopher, Wetask-	3 ,,	30	Standard Soap Co.,	
0	15	P1		52374	iwin. Younge Bros., Camrose	3 "	25	Calgary. Royal Crown Soap	
**	15	"		52875	P. J. Hampen, "	8 11	25	Georgeson & Co., Cal-	
-11	16	89		52376	L. J. Adams, Stettler	3 н	30	gary. Royal Crown Soap	
14	22	99			John Irwin Co. Ltd., Cal-	3 11	25	Co. Ltd., Calgary.	
11	22	11		52378	gary. J. A. Nolan, Calgary	3 "	25		
20	23	99		52379	Geo, J. Wood, "	3 "	25	61 21 .	
99	23	11		52380	Woolard's Grocery, Cal-	3 "	25	60 10	
						1	DIST	RICT OF ROCKY	MOUNTAINS
191						1	DIST	RICT OF ROCKY	MOUNTAINS
		Househo Ammo			Rutherford Drug Co., 1-	3 bota		Vendors	MOUNTAINS
					city Drug & Stationery	3 bota			
Dec.	14	Amm	onia.	68113	city Drug & Stationery Co., Nelson. Canada Drug & Book Co.,	3 bota	45		
Dec.	14	Amm	onia.	68113 68116	city Drug & Stationery Co., Nelson.	3 bota 3	45		
Dec.	14 14 14 14	Amm	onia.	68113 68116	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson.	3 bota 3	45 30 40	Vendors	
Dec.	14 14 14 14	Amm	onia.	68113 68116 68117	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson. Poole Drug Co., Nelson. Ira R. Manning, Cran-	3 bota 3 " 3 "	45 30 40	Vendors	Cranbrook Jo
Dec.	14 14 14 14 6.	Amme	onia.	68113 68116 68117 68151	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson. Poole Drug Co., Nelson.	3 bota 3 " 3 "	45 30 40 30	Vendors	Cranbrook Jobers, Cranbroo
Dec. " " 191 Jan.	14 14 14 14 6.	Amme	onia.	68113 68116 68117 68151 68158	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson. Poole Drug Co., Nelson.  Ira R. Manning, Cranbrook.	3 bota 3 " 3 " 3 "	45 30 40 30 40	Vendors	Cranbrook Jobers, Cranbrook A. Macdonald Co., Nelson.
Dec. " " 191 Jan.	14 14 14 14 6.	# 10 mm (1)	onia.	68113 68116 68117 68151 68158 68176	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson. Poole Drug Co., Nelson.  Ira R. Manning, Cranbrook. D. E. Grove, Ymir	3 bota 3 3 3 3	45 30 40 30 40 30	Vendors  " " " " Vancouver Chem. Wks., Vancouver. Royal Crown Soape,	Cranbrook Jobers, Cranbrook A. Macdonald Co., Nelson.
Dec. 11 11 191 Jan. 11	14 14 14 14 6. 7 10	00 00 00 00 00 00 00 00 00 00 00 00 00	onia.	68113 68116 68117 68151 68158 68176 68177	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson. Poole Drug Co., Nelson.  Ira R. Manning, Cranbrook. D. E. Grove, Ymir W. R. Braden, Rossland.	3 bota 3 " 3 " 3 " 3 "	45 30 40 30 40 30 50	Vendors	Cranbrook Jobers, Cranbrook A. Macdonald Co., Nelson.
Dec.  11 11 191 Jan. 11	14 14 14 14 14 6. 7 10 17	Amm	onia.	68113 68116 68117 68151 68158 68176 68177	son. City Drug & Stationery Co., Nelson. Canada Drug & Book Co., Nelson. Poole Drug Co., Nelson.  Ira R. Manning, Cranbrook. D. E. Grove, Ymir W. R. Braden, Rossland. Hunter Bros., Rossland.	3 bota 3 " 3 " 3 " 3 "	45 30 40 30 30 50 33	Vendors  " " " " " " " " " " " " " " " " " "	Cranbrook Jol bers, Cranbroo A. Macdonald Co., Nelson.

HOUSEHOLD A	M	M	ON	TA
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No. 341-

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brook Job-Cranbrook lacdonald & , Nelson.

OUVER-

Impector's Report. (Is not		R	enulta of	Analysis	4	Remarks and Opinion	
Report. (Is not an expression of opinion.)	Name of Brand.	Amerenia NH3.	Dissolved Stalida	Ash.	Specific Gravity.	No. of Sample	Remarks and Opinion of the Chief Analyst.
A. W. R. MAR	KLEY, INSPECTO	R.					The second secon
		p.c.	p.g.	p.c.			
folden West	Golden West	1196	6.83		1 0674	52371	
	,	8 03	0.00		0.9662	52372	
		1 37	7 23		1:06/-8	52378	
liolden West	Golden West	2.08	8 10		1 0698	52374	
		4:36	0.08		0.9814	52375	
lolden West	Golden West	2:00	3:87		1 0282	52376	
	11 11	2 12	7:86		1 0666	52377	
	49 19	2.06	3.89		1.0282	52378	
	77 81	2.05	3.89		1 · 0279	52379	
THOS. PARKE	R, INSPECTOR.	2 · 41			0.5838	52380	
			0.05				
	R, INSPECTOR.	6.19	0.83		0.9768	68112	
		6·19 7·89	0.01		0·9768 0·9861	68112 68113	
	R, INSPECTOR.	6·19 7·89 8·13	0·83 0·01 0·01		0·9768 0·9661 0·9654	68112 68113 68116	
	R, INSPECTOR.	6·19 7·89	0.01		0·9768 0·9861	68112 68113 68116	
	R, INSPECTOR.	6·19 7·89 8·13	0·83 0·01 0·01		0·9768 0·9661 0·9654	68112 68113 68116	
	R, INSPECTOR.	6·19 7·89 8·13 6·61	0.08 0.83 0.01 0.01		0·9768 0·9981 0·9054 0·9716	68112 68113 68116 68117	
	R, INSPECTOR.	6·19 7·89 8·13 6·61	0.08 0.01 0.01 0.01		0·9768 0·9661 0·9654 0·9716	68112 68113 68116 68117	
THOS. PARKE	R, INSPECTOR.	6·19 7·89 8·13 6·61 6·88 4·24	0.08 0.01 0.01 0.01 0.01		0·9768 0·9961 0·9954 0·9716 0·9706 0·9815	68112 68113 68116 68117 68151 68158	
THOS. PARKE	R, INSPECTOR.	6·19 7·89 8·13 6·61 6·88 4·24 3·75	0.08 0.83 0.01 0.01 0.01 0.01		0°9768 0°9961 0°9954 0°9716 0°9706 0°9815	68112 68113 68116 68117 68151 68158	
THOS. PARKE	R, INSPECTOR.	6·19 7·89 8·13 6·61 6·88 4·24 3·75 4·16	0.083 0.01 0.01 0.01 0.01 0.01 0.01		0·9768 0·9961 0·9954 0·9716 0·9706 0·9815 0·9837	68112 68113 68116 68117 68151 68158 68176	
THOS. PARKE	R, INSPECTOR.	6·19 7·89 8·13 6·61 6·88 4·24 3·75 4·16	0.083 0.01 0.01 0.01 0.01 0.01 0.01		0·9768 0·9961 0·9954 0·9716 0·9706 0·9815 0·9837	68112 68113 68116 68117 68151 68158 68176	

#### TABLE I-BULLETIN No. 341-

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Insp Report an ex of op

Cinclu

Standar

Conce o

Sutton pound of Au Handy

Lee's Li

Pendray ing A

D. O'St

Imperia
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R. J. W

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given by	Name and Address of or Furnisher a the Ven	t.	Name and Address	nple	Nature	dection.	
Furnisher.	Manufacturer.	Cost.	of Vendor.	Name and Address		Date of Co	Date of Collection.
ANCOUVER-	DISTRICT OF V						
	1					16.	191
	W. J. Pendray & Sons, Ltd., Victoria. Empress Mfg. Co.,		St., Vancouver. R. H. Richardson, 1029 3		Household Ammonia.	. 20 26	Jan.
	Vancouver.		Robson St., Vancouver.				**
******* ** ***	W. J. Pendray & Sons, Ltd., Victoria.		1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55472		20	2.0
	Royal Crown Soaps, Ltd., Vancouver. S. F. Sutton & Sons,	75	frdson's Bay Co., Gran 3 ville St., Vancouver.			20	**
*********	S. F. Sutton & Sons, London, Eng.	75	и и и 3 и	55474	0 14	20	**
*********	Pugsley, Dingman &	45	11 11 11 3 pkg	55475	10	20	
	Pugsley, Dingman & Co., Toronto. The Lee Chem. Co., Vancouver.	40	New Westminster Co-op. 3 bota Assn., 33 8th St., New Westminster.		"	22	n.
***************************************	W. J. Pendray & Sons, Ltd., Victoria.	75	Westimmster, C. A. Welch Ltd., 681 Col- umbia St., New West- minster.	55477		22	"
VICTORIA-	DISTRICT O						
Wm. Jackson,	DISTRICT O	25	Dixi H. Ross, & Co., 1317 1 qt.	66655	Household	0, 22	Feb.
Wm. Jackson, & Co., Victoria.	W. J. Pendray & Sons, Victoria.		Dixi H. Ross, & Co., 1317 1 qt. Gov't. St., Victoria. The West End Grocery 1 Co., 1002 Gov't. St., Vic-	66655 66668	Ammenia.	22	Feb.
Wm. Jackson, & Co., Victoria.	W. J. Pendray &		Co., 1002 Gov't. St., Victoria.  I. O. Kirkham & Co., 1109 1	tonis	Ammenia.		
Wm. Jackson, & Co., Victoria.	W. J. Pendray & Sons, Victoria.	20	the West End Grocery! Co., 1002 Gov't. St., Victoria.  I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria.	66675 66686	Ammenia.	22	19.
Wm. Jackson, & Co., Victoria.	W. J. Pendray & Sons, Victoria.	20 20	the West End Grocery! Co., 1092 Gov't. St., Victoria.  I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria. Actor. Bros., 1317 Douglas 1 St., Victoria.  D. Rives, Menzies and 1	66675 66686	Ammenia.	22	11
Wm. Jackson, & Co., Victoria.  Nat. Drug & Chem. Co., Vic	W. J. Pendray & Sons, Victoria.  """ Western Pickling Wks. Victoria.	20 20 20	the West End Grocery! Co., 1002 Gov't. St., Victoria.  I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria.	66675 66686 71307	Ammenia.	22 24 24 28	11 11
Wm. Jackson, & Co., Victoria.	W. J. Pendray & Sons, Victoria.  """ Western Pickling Wks. Victoria.	20 20 20 20 20	the West End Grocery! Co., 1002 Gov't. St., Victoria. I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria. St., Victoria. D. Rives, Menzies and 1 Simcoe Sts., Victoria. vel's Pharmacy, 1415 1 Gov't. St., Victoria. D. E. Campbell, Douglas 1	66675 66686 71307 71312	Ammenia	22 24 24 28	11 11
Wm. Jackson, & Co., Victoria.  Nat. Drug & Chem. Co., Victoria.	W. J. Pendray & Sons, Victoria.  """ Western Pickling Wks. Victoria.	20 20 20 20 20 20 25	the West End Grocery! Co., 1002 Gov't. St., Victoria. I. O. Kirkham & Co., 1109 f. Gov't. St., Victoria. Leton Bros., 1317 Douglas f. St., Victoria. D. Rives, Menzies and f. Sincoe Sts., Victoria. vel's Pharmacy, 1415 f. Gov't. St., Victoria. D. E. Campbell, Douglas f. and Fort Sts., Victoria. Lat. Drug & Chem. Co., f. n.	66675 66686 71307 71312 71314	Ammenia	22 24 24 28 r. 7	Mar.
Wm. Jackson, & Co., Victoria.  Nat. Drug & Chem. Co., Victoria.	W. J. Pendray & Sons, Victoria.  """ Western Pickling Wks. Victoria.	20 20 20 20 20 20 25	the West End Grocery! Co., 1002 Gov't. St., Vic- toria. I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria. Actor. Bros., 1317 Douglas 1 St., Victoria. D. Rives, Menzies and 1 Simcoe Sts., Victoria. Vel's Pharmacy, 1415 1 Gov't. St., Victoria. O. E. Campbell, Douglas 1 and Fort Sts., Victoria. St. Drug & Chem. Co., 1 S12 Yates St., Victoria.	66675 66686 71307 71312 71314 71315	Ammenia.	22 24 24 28 r. 7	Mar.
Wm. Jackson, Co., Victoria.	W. J. Pendray & Sons, Victoria.  """ Western Pickling Wks. Victoria.	20 20 20 20 20 20 25 15	the West End Grocery! " Co., 1002 Gov't. St., Victoria.  I. O. Kirkham & Co., 1109 1 " Gov't. St., Victoria. Actor. Bros., 1317 Douglas 1 " St., Victoria.  D. Rives, Menzies and Simcoe Sts., Victoria.  vel's Pharmacy, 1415 1 " Gov't. St., Victoria.  D. E. Campbell, Douglas 1 " and Fort Sts., Victoria.  Value of the co., 1 " St. Victoria.  Let Campbell, Couglas 1 " and Fort Sts., Victoria.  Sat. Drug & Chem. Co., 1 " 512 Yates St., Victoria.	66675 66686 71307 71312 71314 71315 71316	Ammenia	22 24 24 28 r. 7 9	   
Wm. Jackson, Co., Victoria.	W. J. Pendray & Sons, Victoria.  """ Western Pickling Wks. Victoria.	20 20 20 20 20 25 15	the West End Grocery! " Co., 1002 Gov't. St., Vic- toria. I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria. Actor. Bros., 1317 Douglas 1 St., Victoria. D. Rives, Menzies and Sincoe Sts., Victoria. Vel's Pharmacy, 1415 1 Gov't. St., Victoria. D. E. Campbell, Douglas 1 and Fort Sts., Victoria. St. Drug & Chem. Co., 1 512 Yates St., Victoria. Fort St., Victoria. Fort St., Victoria. Fort St., Victoria. Gerry's Drug Store, 705 1 Fort St., Victoria. Geo. A. Fraser & Co., 917 1 Go.	66675 66686 71307 71312 71314 71315 71316	Ammenia	22 24 24 28 r. 7 9 9	   
Wm. Jackson, Co., Victoria.  Nat. Drug Chem.Co., Victoria.	W. J. Pendray & Sons, Victoria.  Western Pickling Wks. Victoria.  Vendor	20 20 20 20 20 25 15 15 25	the West End Grocery! " Co., 1002 Gov't. St., Vic- toria. I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria. Actor. Bros., 1317 Douglas 1 St., Victoria. D. Rives, Menzies and Sincoe Sts., Victoria. Vel's Pharmacy, 1415 1 Gov't. St., Victoria. D. E. Campbell, Douglas 1 and Fort Sts., Victoria. St. Drug & Chem. Co., 1 512 Yates St., Victoria. Fort St., Victoria. Fort St., Victoria. Fort St., Victoria. Gerry's Drug Store, 705 1 Fort St., Victoria. Geo. A. Fraser & Co., 917 1 Go.	66675 66686 71307 71312 71314 71315 71316 71317	Ammenia	22 24 24 28 r. 7 9 9 10	   
Wm. Jackson, Co., Victoria.  Nat. Drug Chem. Co., Victoria.	W. J. Pendray & Sons, Victoria.  Western Pickling Wks. Victoria.  Vendor	20 20 20 20 20 25 15 15 25	the West End Grocery 1 Co., 1002 Gov't. St., Victoria. I. O. Kirkham & Co., 1109 1 Gov't. St., Victoria. Actor. Bros., 1317 Douglas 1 St., Victoria. L. D. Rives, Menzies and 1 Simcoe Sts., Victoria. Vel's Pharmacy, 1415 1 Gov't. St., Victoria. O. E. Campbell, Douglas 1 and Fort Sts., Victoria. Victoria. St. Drug & Chem. Co., 512 Yates St., Victoria. Forty's Drug Store, 705 1 Fort St., Victoria. Gov't. St., Victoria. Gov't. St., Victoria.	66675 66686 71307 71312 71314 71315 71316 71317	Ammenia	22 24 24 28 r. 7 9 9 10	Mar.

Inspector's Report. (Is not			Result.	of Analys	4		
an expression of opinion.)	Name of Brand.	Ammonia NH3.	Bissolved Solids.		Specific Gravity.	No. of Sample	Remarks and Opinions of the Chief Analyst.
Concluded.							
		p.c.	p. c.	p. c.			
Standard	Standard	5.81	0.01		0 9752	55470	
C 38 H	Climax	4.67	0.01		9 9799	55471	
Cong in rated	Concentrated	6.93	0.02		0 9722	55472	
Royal Crown	Royal Crown	4:40	0.03		0 9813	55473	
pound Cream	Sutton's	11:84	9:08		0.9611	55474	
Handy Brand	Handy	3.41	7:31			55475	
Lee's Liquid Am-		5:35	0.01		0.9769	5347R	
'endray's Wash- ing Ammonia.	Pendray's	4.62	0.01		0.9804	55477	
osulliva:	N, INSPECTOR.						
	imperial	6.15	0.01		0.9735	66655	
oncentrated (	Concentrated	6.13	0 01		0 9736	66668	
absolutely pure.		6.39	0.01		0.9724	66675	
encentrated C	oncentrated	6 58	0.01		0.9719	66686	
Outble strength.		5.01	0.01		0.9784	71307	4
		8.40	0.01		0 9641	71312	
		6 12	0.01		0.9737	71314	
		2 80	0 55		0.8838	71315	
		8 49	0.01		0.9637		
		10.76	0.01		0.9545		
J. WAUGH,	INSPECTOR.		1	- 1			
					-		-
1	Be	3.44	0.024	0.010		64321	
В							
	wyer's	7 82	0.020	0.012		64322	

# TABLE II—BULLETIN No. 341—HOUSEHOLD AMMONIA.

	Results of Analysis					R	esulta c	of Anal	ysis.
Brand.	No. of Samples analyzed.	Average p.c. of NH3.	Average price per buttle of	10	Brand.	No. of Samples analyzed.	Average p.c. of NH3.	Average price per bottle of	Price per unit
Sun. Bee.  "Livermois Bull Dog Sapho Saybers Suitana. Mody's Dearborn Hawes. Royal Crown, Vancouver Golden West. Concentrated. Gorman Eckert Royal Crown, Winnipeg. Simonds. National Drug Co.	11 33 12 4 4 5 5 2 2 2 7 7	5 5 05 7 30 16 22 5 2 53 2 49 7 89 7 89 3 18 4 52 5 04 4 52 5 04 4 52 2 6 41 5 60 2 68 2 98	10 22 20 20 10 11 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	1 3 600 1 2 8900 1 2 8900 1 2 3 8 7 114 2 4 813 4 1 788 2 3 077 3 144 0 2 212 0 1 984 8 4 205 12 918 1 1 789 2 1 1 789 2 1 1 789 2 1 1 789 2 1 3 355	Canada Drug Co. Hatheways Baird's. National Entente Murrays Blue Circle. Fan. Quality. Standard CClimax Suttons Lees Pendrays Imperial Chemical Co. Wilsons	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	p.c. 4 99 2 81 2 4 1 5 64 1 22 4 97 6 7 6 5 66 3 33 5 81 4 67 11 84 5 35 4 66 11 38	cts.  10 10 10 10 10 10 10 10 10 10 10 10 10	p.e. 2 000 3 500 4 144 1 775 7 755 0 2 950 1 777 0 3 000 1 721 6 3 422 1 95 1 4 957 2 6 6 1
	Re	sults of	Analy	rais.		Re	sults of	f Analy	rais.
No brand given. No. of sample.	No. of Samples analyzed.	Average p.c. of NH3.	Average price per bottle of approx. 12 ozs.	Price per unit	No brand given. No. of sample.	No. of Samples analyzed.	Average p.c. of NH3.	Average price per bottle of approx 12 ozs.	Price per unit
6632 6633 6634 6635 6636 6637 6639 6641 1781 1784 4576	111111111111111111111111111111111111111	23 80 5 95 24 80 23 50 10 45 7 85 15 64 6 42 8 36 8 84 5 40 1 80 4 10 8 70	Centa.  30 18 30 24 15 20 18 30 30 10 24 10 15 15	3 025 1 209 1 021 1 436 3 548 1 150 4 518 4 672 1 196 2 714 1 851 8 333 3 658	71554 52372 52373 52375 68112 68113 68116 68116 68151 68151 6816 68176 68176 68183 55468	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4·90 8·03 1·37 4·36 6·19 7·89 8·13 6·61 6·88 4·24 3·75 6·54 7·72 6·39	10 10 25 25 25	2 040 1 245 7 299 2 293 2 423 2 534 3 197 3 025 1 453 2 358 6 666 3 822 1 943 1 877

# TABLE II—BULLETIN 341—HOUSEHOLD AMMONIA.

SAMPLES OF DRY AMMONIA.

	Results of Analysis.					Results of Analysis.			
Brand.	No. of Samples analyzed.	Average p.c. of NH3.	Average price per pound ap- prox.	Price per unit	Brand.	No. of Samples analyzed.	Average p.c. of	Average price per pound ap- prox.	rice per unit
Lawrason's Snowflake Handy. Star Crescent	4 5 2 2	2:63 3:40 1:78 3:49	5 7	3.932	Good Anchor H.O. Bee	1 1 1 2	2·45 2·04 2·38 1·87	5	2·040 2·450 2·100 2·673

nalysis.

Approx. 12 ozs.
Price per unit

alysis.

Price per unit